

Attorney Docket No.: PM (DC-0251)
Inventor: Wade and Demian
Serial No.: 09/720,078
Filing Date: July 25, 2001
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This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (previously presented): A method for enhancing or suppressing at least the humoral immune response or CD4 Th1 immune response to a target antigen comprising administering the following:

(i) a conjugate comprising a selected antigen, which is directly or indirectly attached to an antibody that specifically binds to a molecule which is expressed by an antigen-presenting cell (APC); and

(ii) an anti-CD40 antibody, wherein the antigen-antibody conjugate of (i) and the anti-CD40 antibody of (ii) are administered simultaneously or substantially contemporaneously thereby enhancing or suppressing at least the humoral immune response or CD4 Th1 immune response to the target antigen when compared to the humoral immune response or CD4 Th1 immune response provided upon administration of the antigen-antibody conjugate in the absence of the anti-CD40 antibody.

Claim 2 (original): The method of Claim 1 wherein the antibody attached to said antigen is selected from the group consisting of an anti-MHC class II antibody, an anti-MHC class I antibody, an anti-CD11c antibody, an anti-dendritic cell antigen antibody, an anti-follicular cell antigen antibody, and an anti-Fc molecule antibody.

Claims 3-4 (canceled).

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Claim 5 (original): The method of Claim 1, which is effected *in vivo*.

Claims 6-7 (canceled).

Claim 8 (previously presented): The method of Claim 5, which is used for the treatment of viral infection, bacterial infection or cancer.

Claim 9 (previously presented) The method of Claim 1, wherein said antigen is expressed by a moiety selected from the group consisting of a tumor or cancer cell, a virus, a pathogen, a bacterium, and a fungus.

Claim 10 (previously presented): The method according to Claim 9, wherein said cancer or tumor cell is selected from the group consisting of prostate, breast, and ovarian.

Claim 11 (previously presented): The method according to Claim 9, wherein said virus is selected from the group consisting of a papillomavirus, RSV, herpes virus, influenza virus, a hepatitis virus, a polio virus, and HIV virus.

Claim 12 (original): The method according to Claim 1, wherein the antigen-antibody conjugate of (i) and the anti-CD40 antibody are administered together.

Claim 13 (original): The method according to Claim 1, wherein the antigen is directly attached to said antibody.

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Claim 14 (original): The method according to Claim 13, wherein said direct attachment comprises covalent attachment of the antigen and the antibody.

Claim 15 (original): The method according to Claim 1, wherein the administered antigen-antibody conjugate of (i) and the anti-CD40 antibody are contained in the same composition.

Claim 16 (previously presented): The method of Claim 1 which is used to induce a protective Th1 cell-mediated immune response against a bacterial disease.

Claim 17 (previously presented): The method of Claim 1 which is used to treat Lyme's disease.

Claims 18-30 (canceled).